

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **02134489 A**

(43) Date of publication of application: **23.05.90**

(51) Int. Cl.

**F16L 47/06**  
**F16L 41/02**

(21) Application number: **63285521**

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(22) Date of filing: **11.11.88**

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**(54) FUSION FITTING STRUCTURE FOR PLASTIC PIPE**

(57) Abstract:

**PURPOSE:** To relieve stress concentration in the fitting member of a plastic pipe consisting for ex. of polyethylene by providing a groove in circular profile in the fusion jointed part with a pipe to be connected.

**CONSTITUTION:** When a pipe is connected using for ex. a socket 11 as a fitting member 10, a groove 12 in circular profile for relieving stress concentration is provided, located at the intrusive fusion end 1b of a pipe to be connected 1. This provides smooth connection of the end 1b of the pipe 1 with the groove 12 in circular profile, so that stress concentration in this part will be reduced greatly. This joint structure is applicable to plastic pipes consisting for ex. of polyethylene and polybutene and gives solution to the problem of stress concentration which tends to cause crack in the fused part.

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